

## **Launch Mission Execution Forecast**

**Mission**: Atlas V CST-100 OFT-2 **Issued**: 2 Aug 2021 / 0800L (1200Z)

**Valid**: 3 Aug 2021 / 1310 – 1330L (1710 – 1730Z)



**Forecast Discussion:** *No change to the forecast reasoning.* A mid- and upper-level trough over the eastern U.S., southwest steering flow, and ample moisture will encourage scattered to numerous afternoon showers and thunderstorms over the Space Coast this week. Given the pattern, the greatest coverage of convection is expected to hold off until after tomorrow and Wednesday's launch window. However, a weather-related violation is still possible due to activity pushing onshore from the eastern Gulf of Mexico each morning. The primary concerns at this time, particularly toward the end of each count, are the Cumulus Cloud and Lightning Rules. Cloud cover streaming over the state from storms over the eastern Gulf of Mexico will bring an added concern for a Thick Cloud Layer Rule violation.

	Probability of Violating Weather Constraints									
Day	40% Primary Concerns: Cumulus Cloud Rule, Lightning Rule, Thick Cloud Layer Rule									
ch	Weather Conditions							Additional Risk Criteria		
aunch	Weather/Visi	bility:	Isolated Storms / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)			
_	Temp/Humid	ity:	87°F / 72%	Cumulus	Scattered	3,000	10,000	Solar Activity:	Low	
	Ground Wind	ds (230'):	190° 15 - 19 knots	Cirrus	Broken	22,000	28,000			
,	Probability of Violating Weather Constraints									
40% Primary Concerns: Cumulus Cloud Rule, Lightning Rule, Thick Cloud Layer Rule								ayer Rule		
	Weather Conditions							Additional Risk Criteria		
24-Hour	Weather/Visibility: Isolated Storms / 7 mi.  Temp/Humidity: 85°F / 76%			Туре	Clouds Coverage	Base (ft)	Tops (ft)		Low	
24				Cumulus	Scattered	3,000	10,000	Solar Activity:		
	Ground Winds (230'): 190° 14 - 18 knots		Cirrus	Broken	18,000	22,000				
			(POV) is the chance that a Li						ds, precipitation, and	
Next Forecast Will Be Issued  As Necessary										